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10/774,087	02/06/2004	Maung W. Han	ALPINE.042AUS	7144
<div>7590 07/27/2007 MURAMATSU & ASSOCIATES Suite 310 114 Pacifica Irvine, CA 92618</div>			<div>EXAMINER MANCHO, RONNIE M</div>	
			<div>ART UNIT 3663</div>	<div>PAPER NUMBER</div>
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/774,087	Applicant(s) HAN, MAUNG W.	
	Examiner Ronnie Mancho	Art Unit 3663	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 01 May 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

3. In claims 1 and 11, the applicant recites, "immediately displaying". How immediate is immediate, 1 second, 2 seconds, etc? The term is a relative term and is thus indefinite.

The rest of the claims are rejected for depending on a rejected base claim.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the

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reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

5. Claims 1-8, 11-18 are rejected under 35 U.S.C. 102(e) as being anticipated by Yokota et al (6640185).

Regarding claim 1, Yokota et al disclose a display method for a navigation system, comprising:

receiving a scroll signal from an input device operated by a user for scrolling a screen of a navigation system (102, fig. 6);

detecting a condition in which blank scroll will arise when the screen is scrolled, where the blank scroll is a situation of the screen which does not show any visible object thereon when the screen is scrolled (fig. 1A, 1B, fig. 4, fig. 19; note applicant's background section of the prior art);

reading map data ahead in a scroll direction to find any visible object when the blank scroll condition is detected (col. 4, lines 1-28, col. 5, lines 2-30; col. 8, lines 44-60; col. 9, lines 33-44; col. 10, lines 3-10);

evaluating each shape point that defines a shape of a visible object to determine whether any part of the visible object should come within a display range of the screen when the screen is further scrolled in the scroll direction (col. 4, lines 1-28, col. 5, lines 2-30; col. 8, lines 44-60; col. 9, lines 33-44; col. 10, lines 3-10); and

immediately displaying (see applicant's pages 3 and 4. Displaying is understood to mean that the display window is scrolled or changed to open into another display window, or zoomed, wherein a location is displayed) a location which shows the visible object without showing a

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blank screen when it is determined that any part of the visible object should come within the display range (col. 4, lines 1-28, col. 5, lines 2-30; col. 8, lines 44-60; col. 9, lines 33-44; col. 10, lines 3-10).

Regarding claim 2, Yokota et al (col. 4, lines 1-28, col. 5, lines 2-30; col. 8, lines 44-60; col. 9, lines 33-44; col. 10, lines 3-10) disclose the display method for a navigation system as defined in claim 1, wherein said step of detecting the blank scroll condition includes a step of scanning the screen to see if there is any color difference on the screen, and if there is not a sufficient color difference, it is determined that the blank scroll condition exists.

Regarding claim 3, Yokota et al (col. 4, lines 1-28, col. 5, lines 2-30; col. 8, lines 44-60; col. 9, lines 33-44; col. 10, lines 3-10) disclose the display method for a navigation system as defined in claim 1, wherein said step of detecting the blank scroll condition includes a step of examining map data for the screen to see if there is any data showing a visible object within the display range of the screen, and if there is not the map data showing the visible object, it is determined that the blank scroll condition exists.

Regarding claim 4, Yokota et al (col. 4, lines 1-28, col. 5, lines 2-30; col. 8, lines 44-60; col. 9, lines 33-44; col. 10, lines 3-10) disclose the display method for a navigation system as defined in claim 1, further comprising a step of repeating said steps of reading the map data ahead in the scroll direction to find any visible object and evaluating a shape point of a visible object until a visible object that should come within the display range is detected.

Regarding claim 5, Yokota et al (col. 4, lines 1-28, col. 5, lines 2-30; col. 8, lines 44-60; col. 9, lines 33-44; col. 10, lines 3-10) disclose the display method for a navigation system as defined in claim 1, further comprising a step of stop scrolling the screen even if the scroll signal

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is provided by the user, a step of repeating said steps of reading the map data ahead in the scroll direction to find any visible object and evaluating a shape point on a visible object until a visible object that should come within the display range is detected, thereby immediately displaying the location which shows the visible object within the display range without showing a blank screen.

Regarding claim 6, Yokota et al (col. 4, lines 1-28, col. 5, lines 2-30; col. 8, lines 44-60; col. 9, lines 33-44; col. 10, lines 3-10) disclose the display method for a navigation system as defined in claim 1, wherein said step of reading the map data ahead in the scroll direction includes a step of determining the scroll direction based on the scroll signal generated by the input device.

Regarding claim 7, Yokota et al (col. 4, lines 1-28, col. 5, lines 2-30; col. 8, lines 44-60; col. 9, lines 33-44; col. 10, lines 3-10) disclose the display method for a navigation system as defined in claim 1, wherein said step of evaluating the shape point of the visible object includes a step of drawing lines from the screen defining a display range of the screen if the screen is scrolled in the scroll direction and a center line from a center of the screen toward the scroll direction.

Regarding claim 8, Yokota et al (col. 4, lines 1-28, col. 5, lines 2-30; col. 8, lines 44-60; col. 9, lines 33-44; col. 10, lines 3-10) disclose the display method for a navigation system as defined in claim 1, wherein said step of evaluating the shape point of the visible object includes a step of evaluating a plurality of shape points of the visible object to determine which part of the visible object should come within the display range when the screen is scrolled in the scroll direction.

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Regarding claim 11, Yokota et al (col. 4, lines 1-28, col. 5, lines 2-30; col. 8, lines 44-60; col. 9, lines 33-44; col. 10, lines 3-10) disclose a display apparatus for a navigation system, comprising:

means for receiving a scroll signal from an input device operated by a user for scrolling a screen of a navigation system;

means for detecting a condition in which blank scroll will arise when the screen is scrolled, where the blank scroll is a situation of the screen which does not show any visible object thereon when the screen is scrolled;

means for reading map data ahead in a scroll direction to find any visible object when the blank scroll condition is detected;

means for evaluating each shape point that defines a shape of a visible object to determine whether any part of the visible object should come within a display range of the screen when the screen is further scrolled in the scroll direction; and

means for immediately displaying a location which shows the visible object without showing a blank screen when it is determined that any part of the visible object should come within the display range.

Regarding claim 12, Yokota et al (col. 4, lines 1-28, col. 5, lines 2-30; col. 8, lines 44-60; col. 9, lines 33-44; col. 10, lines 3-10) disclose the display apparatus for a navigation system as defined in claim 11, wherein said means for detecting the blank scroll condition includes means for scanning the screen to see if there is any color difference on the screen, and if there is not a sufficient color difference, it is determined that the blank scroll condition exists.

Regarding claim 13, Yokota et al (col. 4, lines 1-28, col. 5, lines 2-30; col. 8, lines 44-60; col. 9, lines 33-44; col. 10, lines 3-10) disclose the display apparatus for a navigation system as defined in claim 11, wherein said means for detecting the blank scroll condition includes means for examining map data for the screen to see if there is any data showing a visible object within the display range of the screen, and if there is not the map data showing the visible object, it is determined that the blank scroll condition exists.

Regarding claim 14, Yokota et al (col. 4, lines 1-28, col. 5, lines 2-30; col. 8, lines 44-60; col. 9, lines 33-44; col. 10, lines 3-10) disclose the display apparatus for a navigation system as defined in claim 11, further comprising means for repeating said processes of reading the map data ahead in the scroll direction to find any visible object and evaluating a shape point of a visible object until a visible object that should come within the display range is detected.

Regarding claim 15, Yokota et al (col. 4, lines 1-28, col. 5, lines 2-30; col. 8, lines 44-60; col. 9, lines 33-44; col. 10, lines 3-10) disclose the display apparatus for a navigation system as defined in claim 11, further comprising means for stopping the screen scroll even if the scroll signal is provided by the user, means for repeating said processes of reading the map data ahead in the scroll direction to find any visible object and evaluating a shape point of a visible object until a visible object that should come within the display range is detected, thereby immediately displaying the location which shows the visible object within the display range without showing a blank screen..

Regarding claim 16, Yokota et al (col. 4, lines 1-28, col. 5, lines 2-30; col. 8, lines 44-60; col. 9, lines 33-44; col. 10, lines 3-10) disclose the display apparatus for a navigation system as defined in claim 11, wherein said means for reading the map data ahead in the scroll direction

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includes means for determining the scroll direction based on the scroll signal generated by the input device.

Regarding claim 17, Yokota et al (col. 4, lines 1-28, col. 5, lines 2-30; col. 8, lines 44-60; col. 9, lines 33-44; col. 10, lines 3-10) disclose the display apparatus for a navigation system as defined in claim 11, wherein said means for evaluating the shape point on the visible object includes means for drawing lines from the screen defining a display range of the screen if the screen is scrolled in the scroll direction and a center line from a center of the screen toward the scroll direction.

Regarding claim 18, Yokota et al (col. 4, lines 1-28, col. 5, lines 2-30; col. 8, lines 44-60; col. 9, lines 33-44; col. 10, lines 3-10) disclose the display apparatus for a navigation system as defined in claim 11, wherein said means for evaluating the shape point of the visible object includes means for evaluating a plurality of shape points of the visible object to determine which part of the visible object should come within the display range when the screen is scrolled in the scroll direction.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 9, 10, 19, 20 rejected under 35 U.S.C. 103(a) as being unpatentable over Yokota et al in view of Adachi (6662101).

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Regarding claim 9, Yokota et al (col. 4, lines 1-28, col. 5, lines 2-30; col. 8, lines 44-60; col. 9, lines 33-44; col. 10, lines 3-10) disclose the display method for a navigation system as defined in claim 1, but did not disclose evaluating an angle, α made by the first line, an angle β made by a second line, and an angle θ of the scroll direction. However, Adachi (figs 6-10) disclose a navigation system wherein a step of evaluating a shape point of a visible object includes a step of drawing a first line from one corner of the screen which is one end of the display range to the shape point and a second line from another corner of the screen which is another end of the display range to the shape point, and a step of evaluating an angle α made by the first line, an angle β made by the second line, and an angle θ of the scroll direction for determining whether the shape point will be within a display range when a screen scroll is continued.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the Yokota device as taught by Adachi for the purpose of obtaining an intercept azimuth.

Regarding claim 10, Adachi et al disclose the display method for a navigation system as defined in claim 9, wherein said step of evaluating the angles includes a step of determining that the shape point will not come within the display range if a relationship of " $\alpha > \theta$ and $\beta > \theta$." or " $\alpha < \theta$ and $\beta < \theta$." is satisfied.

Regarding claim 19, Yokota et al (col. 4, lines 1-28, col. 5, lines 2-30; col. 8, lines 44-60; col. 9, lines 33-44; col. 10, lines 3-10) disclose the display apparatus for a navigation system as defined in claim 11, but did not disclose evaluating an angle α made by the first line, an angle β made by a second line, and an angle θ of the scroll direction. However, Adachi

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(figs 6-10) disclose a navigation system wherein a means for evaluating a shape point of a visible object includes means for drawing a first line from one corner of the screen which is one end of the display range to the shape point and a second line from another corner of the screen which is another end of the display range to the shape point, and means for evaluating an angle α made by the first line, an angle β made by the second line, and an angle θ of the scroll direction for determining whether the shape point will be within the display range when the screen scroll is continued.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the Yokota device as taught by Adachi for the purpose of obtaining an intercept azimuth.

Regarding claim 20, Adachi et al disclose the display apparatus for a navigation system as defined in claim 19, wherein said means for evaluating the angles includes means for determining that the shape point will not come within the display range if a relationship of $\alpha > \theta$ and $\beta > \theta$, or $\alpha < \theta$ and $\beta < \theta$ is satisfied.

Response to Arguments

8. Applicant's arguments filed 5/1/07 have been fully considered but they are not persuasive.

Applicant is reminded (emphasis added) that he is to conduct business with the office with Decorum and Candor, see MPEP 37 CFR 1.3. Such disingenuous remarks will result in the non-entry of future correspondence and report to the office of enrollment and discipline.

The applicant argues that the prior art does not disclose a “blank scroll”. Again the examiner disagrees and repeats the response cited in the last office action. In the previous remark, the applicant admitted that the feature is well known in the art. It is further noted that the applicant’s fig.3 indicates that when the navigation apparatus is going to a desert area where there are no roads and landmarks, etc the screen becomes blank because there are no artifacts in the desert. On the other hand, however, the screen shows a map of an artifact indicating that the navigation device has detected an artifact. In the same manner, the prior art navigation has a scrolling screen that shows a map or areas where the navigation device is located. Therefore, if the navigation device is located in a desert area where there is no artifact similar to applicant’s invention, a blank screen will also show up since there is no artifact to display on the screen of the prior art. That is when the navigation device of the prior art is located in an area where a map includes an artifact, the artifact will be disclosed on the scrolling screen similar to applicant’s invention. The prior art detects the condition in which a blank scroll screen will arise by applicant’s admission that it is known in the prior art. The prior art displays artifact when the artifacts are present. As known in the art as admitted by the applicant, when the prior art is in a desert area where there is no artifact, then there is nothing to display on the screen of the prior art. Therefore, at this moment it is believed that the prior art has detected the condition that a blank scroll screen will arise. It is further noted that the phrase “avoiding the blank screen” is not recited in the claims.

Applicant merely argues that figs. 1A, 1B, 4, 19 do not show a “blank scroll”, but does not provide support for the argument. It is believed that the recited drawings in the prior art disclose the claimed “blank scroll”.

Applicant's arguments referring to, "avoiding the same by reading the map data ahead in the scroll direction", "searches for visible objects in the scroll direction" are irrelevant since the limitation is not recited in the claims.

The applicant further argues that the prior art does not disclose finding any visible object. The examiner disagrees. It is noted that the original disclosure recites an artifact and the amended case recites "an object". Not all objects are artifacts. Thus it is believed that the applicant is referring to an artifact and the argument will be interpreted to mean as such. Anyway, as already pointed out above, applicant admits that the prior art disclose a scrolling screen and further admits that the prior art disclose artifacts, and further admits that it is well known in the prior art to disclose an artifact in the scrolling screen. Therefore, the prior art anticipates the claim.

The applicant is further in contradiction by arguing that the prior art does not disclose a "shape point" or "evaluating of the shape points of visible objects". In the previous action, it is noted by applicant's admission that shape points refer to information showing positions and shapes of artifacts. As a matter of fact, the applicant submitted that shape points of an artifact can be represent by coordinates. The examiner submits that the prior anticipates the limitations.

The applicant further argues that the prior art does not disclose searching for visible objects. The examiner disagrees. When the prior art drives around, artifacts are disclosed on the screen when they are found by the prior art and vise versa. Therefore, the prior art anticipates the claims.

The applicant further argues that the prior art does not disclose the limitation, "immediately displaying the location of the visible object without showing the blank screen".

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The examiner disagrees. In the previous action, the applicant admits that the prior art disclose an artifact on a scrolling screen. Therefore, when an artifact is disclosed on the screen of the prior art, the screen is no more blank. Therefore, the prior art anticipates the claims.

It is thus believed that the rejection is proper and stands.

Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Communication

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ronnie Mancho whose telephone number is 571-272-6984. The examiner can normally be reached on Mon-Thurs: 9-5.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Keith can be reached on 571-272-6878. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Ronnie Mancho
Examiner
Art Unit 3663

7/21/2007


JACK KEITH
SUPERVISOR, PATENT EXAMINERS